

### COMMONWEALTH of VIRGINIA

### DEPARTMENT OF ENVIRONMENTAL QUALITY SOUTHWEST REGIONAL OFFICE

355-A Deadmore Street, Abingdon, Virginia 24210 Phone (276) 676-4800 Fax (276) 676-4899 www.deq.virginia.gov

June 20, 2013

David K. Paylor

Allen J. Newman, P.E. Regional Director

Mr. Larry Souverielle Senior Director, Operations General Dynamics – Armament and Technical Products, Inc. 150 Johnston Road Marion, Virginia 24354

Location: Marion, Smyth County

Registration No.: 10050

Dear Mr. Souverielle:

Douglas W. Domenech

Secretary of Natural Resources

Attached is a renewal Title V permit to operate your facility pursuant to 9 VAC 5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve General Dynamics – Armament and Technical Products, Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The <u>Regulations</u>, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director Department of Environmental Quality P. O. Box 1105 Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

Mr. Larry Souverielle June 20, 2013 Page 2

We have identified the following federal rules as having applicable requirements for portions of your operations:

40 CFR 60 Subpart JJJJ; and 40 CFR 63 Subparts A, GG, MMMM, ZZZZ, and DDDDD.

General Dynamics – Armament and Technical Products, Inc. is responsible to comply with all applicable requirements in these rules. These regulations are not attached to this permit, but may be accessed electronically at EPA's website or the electronic code of federal regulations website here:

http://www.ecfr.gov/cgi-bin/text-idx?SID=58ecf18cefe2761a2f6f96eb9ef25337&tpl=/ecfrbrowse/Title40/40tab\_02.tpl

If you have any questions concerning this permit, please contact Rob Feagins at 276-676-4835.

Sincerely,

Allen J. Newman, P.E. Regional Director

AJN/ECM/10050VA-13.doc

Attachments: Permit

cc: Director, OAPP (electronic file submission)

Manager, Data Analysis (electronic file submission)

Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III



### COMMONWEALTH of VIRGINIA

Douglas W. Domenech Secretary of Natural Resources

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David K. Paylor Director

Allen J. Newman, P.E. Regional Director

### Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	General Dynamics – Armament and Technical Products, Inc.
Facility Name:	General Dynamics – Armament and Technical Products, Inc.,
	Plant 1
Facility Location:	325 Brunswick Lane, Marion, Virginia
Registration Number:	10050
Permit Number:	SWRO10050
Effective Date:	June 20, 2013
Expiration Date:	June 19, 2018

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through XIII)

Regional Director	
Signature Date	

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### I. Facility Information

### **Permittee**

General Dynamics-Armament and Technical Products, Inc. 150 Johnston Road Marion, VA 24354

### **Responsible Official**

Mr. Larry Souverielle Senior Director, Operations

### **Facility**

General Dynamics-Armament and Technical Products, Inc. 325 Brunswick Lane Marion, Virginia, 24354

### **Contact Person**

Mr. Cliff Stanley Principal EHS Specialist (276) 783-1324

County-Plant Identification Number: 51-173-00001

**Facility Description:** NAICS 332311, 336412, 336413, 336419 - The company manufactures metal shelters and related products for military vehicles and equipment. The process includes metal cleaning, fabrication, coating and assembly of aluminum panels. The company also manufactures radomes and other aerospace composites for various aircraft and weaponry from composite materials. These items may be of commercial or military use. The operations include the application of many coatings, resins, adhesives, fillers, or cleaners by several different methods, such as spray coating, brushing, extrusion, chemical conversion, troweling, rolling, etc. Most of the operations are labor intensive, and involve many fabrication/assembly steps. The facility also includes two gas/oil-fired boilers and various other heaters and ovens used in the process.

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### **II.** Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning	g Equipm	nent					
18	18	Cleaver Brooks Model D-68 gas/oil boiler – 1200 hp – 1972	50.2 MMBtu/hr	-	-	-	04/30/08 (as amended 09/24/12 & 03/12/13)
19	19	Cleaver Brooks Model CB- 200-300 gas/oil boiler – 300 hp – 1985	12.5 MMBtu/hr	-	-	-	04/30/08 (as amended 09/24/12 & 03/12/13)
Emergency I	Engines			•	•		
114	114	Kohler emergency generator, GM Engine 52729 (propane- fired) - 2009	42 kW	-	-	-	-
Heat Cleanir	Heat Cleaning						
5	5	Bayco Model BB-56 Heat Cleaning Oven (gas fired)	116.4 lbs charged/hr	afterburner	-	PM, VOC	04/30/08 (as amended 09/24/12 & 03/12/13)
<b>Shelter Coat</b>	ing Oper	ations			•		
6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 33, 80	same	Shelter Primer/Coating mixing, spray booths, and drying operations	4,000 – 6,000 lb product/hr	Booths are equipped with filters	same	PM/PM10	04/30/08 (as amended 09/24/12 & 03/12/13)
Aerospace C	oating O	perations					
63, 65, 69a&b	same	Aerospace composite spray booths	4,000 lb product/hr	Booths are equipped with 2- stage filters	same	PM/PM10	04/30/08 (as amended 09/24/12 & 03/12/13)

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Resin Impregnation         40, 41, 81       sam         Resin Transfer Megos 97         98       sam         110       sam         Grinding/Sanding         20, 46, 57, 58, 61, 66, 67, FWG1-11, 80, 107       sam         Metal Cleaning         1-4       sam         Flame/Arc Spray	ame	Prepreg Operations Impregnation of fiberglass or other materials with various resins	200 lb product/hr	T T			
Resin Transfer Me         96 & 97       sam         98       sam         110       Grinding/Sanding         20, 46, 57, 58, 61, 66, 67, FWG1-11, 80, 107       sam         Metal Cleaning       sam         1-4       sam		other materials with various	200 lb product/hr				
96 & 97  98 110  Grinding/Sanding  20, 46, 57, 58, 61, 66, 67, FWG1- 11, 80, 107  Metal Cleaning  1-4  sam	Moldi		each	-	1	-	04/30/08 (as amended 09/24/12 & 03/12/13)
98 110  Grinding/Sanding  20, 46, 57, 58, 61, 66, 67, FWG1- 11, 80, 107  Metal Cleaning  1-4  sam		ng					
98 110 <b>Grinding/Sanding</b> 20, 46, 57, 58, 61, 66, 67, FWG1-11, 80, 107 <b>Metal Cleaning</b> 1-4 sam		96 & 97 – Tactifier Spray	2 T product/hr	Fiberglass filters	same	PM/PM10	
Grinding/Sanding         20, 46, 57,       58, 61, 66,         67, FWG1-       11, 80, 107         Metal Cleaning         1-4       sam	ame	Booths Fume Hood Sanding/Trim Booth	each  2 T/hr	 Fiberglass Filters			04/30/08 (as amended 09/24/12 & 03/12/13)
20, 46, 57, 58, 61, 66, 67, FWG1- 11, 80, 107 sam Metal Cleaning 1-4 sam	ng/Ro			1100181455111015			
1-4 sam		Trimming panels, sanding and grinding of composite radomes	Panel trim – 600 lb product/hr sanding – 4,000 lb product/hr grinding – 200 lb product/hr	Various baghouses including Ref. #107	same	PM/PM10	04/30/08 (as amended 09/24/12 & 03/12/13)
Flame/Arc Spray	ame	Aluminum wash, rinse, acid wash tanks	6,000 lb product/hr	Venturi scrubbers for acid tanks	same	PM/PM10	04/30/08 (as amended 09/24/12 & 03/12/13)
i lumerine opius	y Boo	th					
27 sam		Flame Spraying; Arc Spraying	600 lb product/hr; 4000 lb/hr	Filters	same	PM/PM10	04/30/08 (as amended 09/24/12 & 03/12/13)

<sup>\*</sup>The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

### III. Fuel Burning Equipment Requirements – Ref. #18, 19 Cleaver Brooks Boilers

### A. Limitations

- 1. The approved fuels for the two Cleaver Brooks boilers (Ref. #18 & 19) are natural gas and distillate oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM D396-78 "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate.

  (9 VAC 5-80-110 and Condition 11 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- The maximum sulfur content of the oil to be burned in the boilers (Ref. #18 & 19) shall not exceed 0.5 percent by weight per shipment.
   (9 VAC 5-80-110 and Condition 12 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 3. The Cleaver Brooks boilers (Ref. #18 & 19) shall consume no more than a combined total of 90 million cubic feet of natural gas and 105,000 gallons of distillate oil per year, calculated as the sum of each consecutive twelve (12) month period. (9 VAC 5-80-110 and Conditions 13 and 14 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 4. Combined total emissions from the operation of the Cleaver Brooks boilers (Ref. #18 & 19) shall not exceed the limits specified below:

Sulfur Dioxide	32.3 lbs/hr	3.8 tons/yr
Nitrogen Oxides (as NO <sub>2</sub> )	9.1 lbs/hr	5.5 tons/yr
Carbon Monoxide	5.1 lbs/hr	4.0 tons/vr

Annual emissions shall be calculated as the sum of each consecutive 12-month period.

(9 VAC 5-80-110, 9 VAC 5-50-180, 9 VAC 5-40-930, 9 VAC 5-50-260, and Condition 21 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

5. Emissions from the operation of the Cleaver Brooks boiler (Ref. #18) shall not exceed the limits specified below:

Particulate Matter

0.39 lb/MMBtu

(9 VAC 5-40-900 and 9 VAC 5-80-110)

6. Emissions from the operation of the Cleaver Brooks boiler (Ref. #19) shall not exceed the limits specified below:

Particulate Matter

0.57 lb/MMBtu

(9 VAC 5-40-900 and 9 VAC 5-80-110)

7. Visible Emissions from each of the Cleaver Brooks boiler stacks shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity.

(9 VAC 5-50-20, 9 VAC 5-50-80, 9 VAC 5-80-110, and Condition 25 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

8. Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.

(9 VAC 5-80-110 and Condition 30 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### B. Recordkeeping

- 1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
  - a. The name of the fuel supplier,
  - b. The date on which the oil was received,
  - c. The volume of distillate oil delivered in the shipment,
  - d. A statement that the oil complies with the American Society for Testing and Materials specifications for fuel oil numbers 1 and 2, and
  - e. The sulfur content of the oil.

(9 VAC 5-80-110 and Condition 12 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

- 2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include:
  - a. The monthly and annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) for each Cleaver Brooks boiler. The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.
  - b. Daily hours of operation of the boilers.
  - c. All fuel supplier certifications.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years. (9 VAC 5-50-50, 9 VAC 5-80-110, and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

3. The permittee shall maintain records of the training specified in Condition III.A.8, including a statement of time, names of trainees, and nature of the training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boilers. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ. (9 VAC 5-80-110 and Conditions 26 and 30 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### C. Testing

- The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
   (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

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### D. MACT DDDDD Applicability

The Cleaver Brooks boilers (Ref. #18 & 19) are subject to 40 CFR Part 63, Subpart DDDDD (Industrial, Commercial, and Institutional Boilers and Process Heaters NESHAP (Boiler MACT)), unless the permittee obtains federally enforceable limits on its facility-wide emissions of hazardous air pollutants (HAPs) to below major-source thresholds prior to the first substantive compliance date. (40 CFR 63. 7490(a))

### IV. Emergency Engine – Ref. #114

### A. Limitations

- 1. Visible emissions from the emergency engine Ref. #114 shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this section.
  - (9 VAC 5-50-80 and 9 VAC 5-80-110)
- As of the date of this permit, the emergency engine Ref. #114 is considered an affected source for the purposes of 40 CFR 60 Subpart JJJJ.
   (9 VAC 5-80-110, 40 CFR 63.6590(c), and 40 CFR 60 Subparts A and JJJJ)
- 3. The permittee shall operate the emergency engine Ref. #114 in accordance with 40 CFR Part 1068, Subparts A through D, as they apply. Failure to operate and maintain the unit according to the manufacturer's emission-related written instructions will result in the engine being considered a non-certified unit. If the unit is non-certified, compliance must be demonstrated through establishing a maintenance plan and records of conducted maintenance. The permittee must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
  - (9 VAC 5-80-110 and 40 CFR 60.4243(a))
- 4. Emergency engine Ref. #114 may be operated for a maximum of 100 hours per calendar year for the following purposes:
  - a. The engine may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local

standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

- b. Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
- c. Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(9 VAC 5-80-110 and 40 CFR 60.4243(d))

- 5. There is no time limit on the use of emergency stationary ICE Ref. #114 in emergency situations. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Condition IV.A.4. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as provided below:
  - a. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
    - (1) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;
    - (2) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
    - (3) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
    - (4) The power is provided only to the facility itself or to support the local transmission and distribution system.

(5) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(9 VAC 5-80-110 and 40 CFR 60.4243(d))

6. Emissions from the operation of the emergency engine Ref. #114 shall not exceed the Phase I limits specified for Class II engines in 40 CFR 90.103 as specified below:

Hydrocarbons + Oxides of Nitrogen

13.4 g/kW-hr

Carbon Monoxide

519 g/kW-hr

The permittee shall operate and maintain the engine such that these standards are achieved over the entire life of the engine.

(9 VAC 5-80-110, 40 CFR 60.4231(c), 40 CFR 60.4233(c) and 40 CFR 60.4234)

### **B.** Monitoring

1. The permittee shall install a non-resettable hour meter on emergency engine Ref. #114, if one is not already installed.

(9 VAC 5-80-110 and 40 CFR 60.4237(c))

### C. Recordkeeping

- 1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:
  - a. Occurrence and duration of each malfunction of operation.
  - b. All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and supporting documentation for emergency engine Ref. #114.
  - c. Maintenance conducted on emergency engine Ref. #114.
  - d. Documentation from the manufacturer that emergency engine Ref. #114 is certified to meet emission standards and information as required in 40 CFR Parts 90 and 1048, as applicable.
  - e. Documentation that emergency engine Ref. #114 meets emission standards if it is not certified or if it is operating in a non-certified manner.

General Dynamics-Armament and Technical Products, Inc.

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f. If emergency engine Ref. #114 does not meet non-emergency standards, the permittee must record hours of operation from the non-resettable hour meter. The permittee must document hours spent for emergency operation, identifying the reason, and hours spent in non-emergency operation.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110, 40 CFR 60.4243(a)(1), 40 CFR 60.4245(a),(b))

### **D.** Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110 and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

#### V. Heat Cleaning Oven Requirements – Ref. #5

### A. Limitations

- 1. Particulate matter emissions from the Bayco heat cleaning oven (Ref. #5) shall be controlled by an afterburner or equivalent. The control system shall be provided with adequate access for inspection.
  - (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 5 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. The Bayco heat cleaning oven (Ref. #5) shall process no more than 116.4 pounds per hour and 16.4 tons per year of metal hooks/hangers, calculated as the sum of each consecutive 12-month period.
  - (9 VAC 5-80-110 and Condition 15 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 3. Visible emissions from the Bayco heat cleaning oven (Ref. #5) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity. This standard applies at all times, except for periods of start-up, shutdown, and malfunction. (9 VAC 5-50-20, 9 VAC 5-50-80, and 9 VAC 5-80-110)

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4. Emissions from the operation of the Bayco heat cleaning oven (Ref. #5) shall not exceed the limits specified below:

PM/PM10

0.10 gr/dscf @ 12% CO<sub>2</sub>

(9 VAC 5-80-110, 9 VAC 5-50-260 and Condition 23 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **B.** Monitoring

1. The permittee shall perform inspections of the Bayco heat cleaning oven (Ref. #5) stack to determine the presence of visible emissions. Visible emissions checks shall be conducted at least weekly during periods of normal facility operation for a sufficient time interval to determine if there are any visible emissions. If visible emissions are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit, the observation period shall continue until a total of sixty (60) minutes of observation has been completed. A Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner such that no visible emissions are present; the emissions unit is operating at normal operating conditions; and the cause and corrective measures taken are recorded.

(9 VAC 5-80-110)

2. The permittee shall determine the flue gas temperature in the afterburner chamber in order to assess proper operation. The afterburner operating temperature shall be recorded once during each batch cycle. An afterburner operating temperature of 1400°F or greater is recommended by the manufacturer, and represents proper operation. If the temperature is observed to be lower than 1400°F, the permittee shall take measures to correct operation. In such event, the unit shall not be operated until corrections have been made to restore it to proper operation.

(9 VAC 5-80-110)

### C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include:

- 1. Annual throughput of metal hooks, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Results of weekly visible emission evaluations to include observations, date and time of observation, observer's name, and corrective action taken.

- 3. Results of afterburner temperature measurements to include temperature, date and time of observation, observer's name, and any corrective action taken.
- 4. Daily hours of operation of the heat cleaning oven.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **D.** Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

## VI. Resin Impregnation and Prepreg Operation Requirements – Ref. #40, 41, 81

### A. Limitations

Combined VOC throughput and emissions from the operation of the resin impregnation and prepreg process (Ref. #40, 41, 81) shall not exceed the limits specified below:

Volatile Organic Compounds

25.4 lbs/hr

6.0 tons/yr

Annual emissions shall be calculated as the sum of each consecutive 12-month period. (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 20 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### B. Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

- 1. Annual throughput of materials used in the operation, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Material Safety Data Sheets (MSDS) or other manufacturer's formulation data for each material used.
- 3. Hourly, monthly and annual material balance of VOC throughput and emissions from the process.
- 4. Daily hours of operation of the process.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### C. Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

### VII. Metal Cleaning Requirements - Ref. #1-4

### A. Limitations

Acid fume emissions from the metal cleaning system (Ref. #1-4) shall be controlled by a venturi scrubber or equivalent. The control system shall be provided with adequate access for inspection.

(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 7 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **B.** Monitoring

Scrubber operation shall be verified once per shift by visual observation via a monitoring port. If the scrubber is not operating properly, the permittee shall take corrective action to restore proper operating conditions.

(9 VAC 5-80-110)

### C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include:

- 1. Annual throughput of materials used in the process, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Material Safety Data Sheets or other manufacturer's formulation data for each material used.
- 3. Scrubber observations including unit status, date, time, observer's name, and corrective actions taken.
- 4. Daily hours of operation of the process.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **D.** Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

### VIII. Grinding/Sanding/Routing Requirements - Ref. #20, 46, 57, 58, 61, 66, 67, 80, 110, FWG1-11

### A. Limitations

- 1. Particulate matter emissions from the grinding, sanding, and trimming (Ref. #20, 46, 57, 58, 66, 67, 80, 110, FWG1-11) shall be controlled by fiberglass filters or fabric filter baghouses or equivalent. The control systems shall be provided with adequate access for inspection.
  - (9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 6 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. Visible emissions from the baghouse exhausts shall not exceed 5% opacity. This standard applies at all times, except for periods of start-up, shutdown, and malfunction.
  - (9 VAC 5-50-20, 9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 24 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 3. Combined emissions from the material and product processing operation, including the routing, grinding, and sanding operations (Ref. #20, 46, 57, 58, 66, 67, 80, 110, FWG1-11) shall not exceed the limits specified below:

PM-10 26.3 lbs/hr 13.8 tons/yr

Annual emissions shall be calculated as the sum of each consecutive 12-month period.

(9 VAC 5-50-180, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 22 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **B.** Monitoring

The permittee shall perform inspections of the baghouse stacks to determine the presence of visible emissions. Visible emissions checks shall be conducted at least weekly during periods of normal facility operation for a sufficient time interval to determine if there are any visible emissions. If visible emissions are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit, the observation period shall continue until a total of sixty (60) minutes of observation has been completed. A Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner such that no visible emissions are present; the emissions unit is operating at normal operating conditions; and the cause and corrective measures taken are recorded. (9 VAC 5-80-110)

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### C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

- 1. Annual throughput of materials used in the process, calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Hourly, monthly and annual material balance of particulate matter throughput and emissions from the process. Emissions estimates shall account for type and number of parts processed and controls.
- 3. Results of weekly visible emission evaluations to include observations, date and time of observation, observer's name, and corrective action taken.
- 4. Daily hours of operation of the process.

amended 09/24/12 and 03/12/13))

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **D.** Testing

- The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
   (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

### IX. Flame/Arc Spray Booth Requirements - Ref. #27

### A. Limitations

- Particulate matter emissions from the flame and arc spray booth (Ref. #27) shall be controlled by fiberglass filters or fabric filter baghouses or equivalent. The control system shall be provided with adequate access for inspection.
   (9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 6 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- The flame spray operation (Ref. #27) shall consume no more than 10 pounds per hour and 4 tons per year of metal, calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-80-110 and Condition 16 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- The arc spray operation (Ref. #27) shall consume no more than 4 pounds per hour and 0.5 tons per year of tin/zinc, calculated as the sum of each consecutive twelve (12) month period.
   (9 VAC 5-80-110 and Condition 17 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 4. Visible emissions from the flame and arc spray booth (Ref #27) exhausts shall not exceed 5% opacity. This standard applies at all times, except for periods of start-up, shutdown, and malfunction.
  (9 VAC 5-50-20, 9 VAC 5-50-260, and 9 VAC 5-80-110 and Condition 24 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **B.** Monitoring

1. The spray booth (Ref. #27) shall be equipped with a device to continuously measure the differential pressure drop across the filter/baghouse or equivalent. The monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation during booth operations. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.

(9 VAC 5-80-1180, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 9 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

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2. The permittee shall perform inspections of the spray booth stack to determine the presence of visible emissions. Visible emissions checks shall be conducted at least weekly during periods of normal facility operation for a sufficient time interval to determine if there are any visible emissions. If visible emissions are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit, the observation period shall continue until a total of sixty (60) minutes of observation has been completed. A Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner such that no visible emissions are present; the emissions unit is operating at normal operating conditions; and the cause and corrective measures taken are recorded.

(9 VAC 5-80-110)

### C. Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to:

- 1. Annual throughput of metal used in the flame spray and arc spray operations (Ref. #27), calculated monthly as the sum of each consecutive twelve (12) month period.
- 2. Material Safety Data Sheets or other manufacturer's formulation data for each material used.
- 3. Results of weekly visible emission evaluations to include observations, date and time of observation, observer's name, and corrective action taken.
- 4. Daily hours of operation of the processes.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **D.** Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

X. Shelter Coating Requirements - Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23; and Aerospace/Composite Coating Requirements - Ref. #63, 65, and 69 a&b; Resin Transfer Molding – Ref. #96, 97, 98

### A. Limitations

### **Shelter, Aerospace/Composite and Resin Transfer Molding (RTM) Coating Operations**

- 1. Particulate matter emissions from the shelter spray coating operations (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, and 23) shall be controlled by kraft paper filters or equivalent. The kraft paper filters shall be provided with adequate access for inspection. (9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 4 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- Particulate emissions from the tactifier (adhesive) spray booths (Ref. #96.a, 96.b, and 97) shall be controlled by fiberglass filters or equivalent. The filters shall be provided with adequate access for inspection.
   (9 VAC 5-50-260 and Condition 3 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 3. Volatile organic compound (VOC) emissions from cleaning or purging operations (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 63, 65, 69 a&b, 96, and 97) shall be minimized by the use of detergents, high pressure water, non-volatile compounds, reduced use of volatile organic compounds, or adjustment of production schedules to minimize coating changes.

  (9 VAC 5-50-260 and Condition 8 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 4. Visible emissions from the shelter, composite, and tackifier spray booths (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 63, 65, 69 a&b, 96, and 97) shall not exceed 5 percent opacity. This standard applies at all times, except for periods of start-up, shutdown, and malfunction.

(9 VAC 5-50-20, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 24 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

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5. Combined throughput and emissions from the operation of the shelter and composite coating booths, and the resin transfer molding process (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 80, 63, 65, 69 a&b, 96, 97, and 98) shall not exceed the limits specified below:

Volatile Organic Compounds

916.26 lbs/hr

239.51 tons/yr

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 18 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

6. Particulate matter and PM10 emissions from the shelter and composite coating operations and the resin transfer molding operation (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 80, 63, 65, 69 a&b, 96, 97, and 98) shall not exceed the limits specified below:

PM/PM10

4.17 lbs/hr

3.11 tons/yr

Annual emissions shall be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 19 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **Aerospace/Composite/RTM Coating Operations**

- 7. Particulate matter emissions from the aerospace spray coating operations (Ref. #63, 65, and 69 a&b) shall be controlled by kraft paper filters or equivalent. The kraft paper filters shall be provided with adequate access for inspection. (40 CFR 63.745(g), 9 VAC 5-50-260, 9 VAC 5-80-110, and Condition 4 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 8. The permittee shall operate the affected facilities in compliance with applicable National Emission Standards for Hazardous Air Pollutants, Subpart GG, National Emission Standards for Aerospace Manufacturing and Rework Facilities, 40 CFR 63.741 through 40 CFR 63.753, including 40 CFR 63 Subpart A, General Provisions. (9 VAC 5-60-20, 9 VAC 5-60-90, 9 VAC 5-60-100 Subpart GG, and 9 VAC 5-80-110)

- 9. The organic hazardous air pollutant (HAP) and VOC content limit of uncontrolled primers (except as specified in 40 CFR 63.741 e-j) shall not exceed 350 g/L (2.9 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. Compliance will be determined through: (1) use of coatings below content limits, or (2) using monthly volume-weighted averaging (primers only) specified in 40 CFR 63.745(e) to meet content limits.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.745(c), and 9 VAC 5-80-110)
- 10. The organic HAP and VOC content limit of uncontrolled topcoats (except as specified in 40 CFR 63.741 e-j), including self-priming topcoats, shall not exceed 420 g/L (3.5 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. Compliance will be determined through: (1) use of coatings below content limits, or (2) using monthly volume-weighted averaging (topcoats only) to meet content limits.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.745(c), and 9 VAC 5-80-110)
- 11. The handling and transfer of primers and topcoats to or from containers, tanks, vats, vessels, and piping systems shall be conducted in such a manner that minimizes spills, as specified in 40 CFR 63.745 (b).
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.745(b), and 9 VAC 5-80-110)
- 12. New or existing primer and topcoat application operations (including self-priming topcoats) subject to Subpart GG in which any of the coatings contain organic HAP or VOC shall use one or more of the following application techniques: (1) flow/curtain, (2) dip coat, (3) roll coating, (4) brush coating, (5) cotton-tipped swab, (6) electrodeposition coating, (7) HVLP spraying, (8) electrostatic spray, or (9) other coating methods that achieve emission reductions equivalent to HVLP or electrostatic spray application methods, as determined by the requirements in 40 CFR 63.750(i), except as specified in 40 CFR 63.745(f)(3). All application equipment shall be operated according to manufacturer's specifications, company procedures, or locally specified operating procedures (whichever is most stringent).
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.745(f), and 9 VAC 5-80-110)
- 13. Primers or topcoats (except as specified in 40 CFR 63.741 e-j) that contain inorganic HAP shall be applied in a booth or hangar with air flow controlled by particulate filters meeting or exceeding the efficiency data in Tables 1 through 4 of 40 CFR 63.745 or by waterwash system, except as specified in 40 CFR 63.745(g)(4). (9 VAC 5-60-100 Subpart GG, 40 CFR 63.745(g), and 9 VAC 5-80-110)

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14. Housekeeping measures for cleaning solvents (except semi-aqueous solvent containing greater than 60% water) shall consist of storage in closed containers; cleaning solvent-laden cloth, paper, or other absorbent applicators shall be placed in bags or other closed containers upon completing their use, unless the cleaning solvent is identified in Table I of 40 CFR 63.744 or contains HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f).

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.744(a), and 9 VAC 5-80-110)

- 15. Hand-wipe cleaning solvents (except for cleaning of spray gun equipment) shall meet a composition requirement specified in Table 1 of 40 CFR 63.744, or have a vapor pressure of 45 mm mercury or less at 20 degrees Celsius, or meet the 60% volume reduction requirements specified in an alternative compliance plan, except as specified for the 13 cleaning operations in 40 CFR 63.744(e), which are exempt from these requirements.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.744(b), and 9 VAC 5-80-110)
- 16. Spray gun cleaning shall be performed using (1) enclosed system, (2) non-atomized cleaning, (3) disassembled spray gun cleaning, or (4) atomizing cleaning, or their equivalent, as specified in 40 CFR 63.744(c). Leaks found in enclosed spray gun cleaners during required monthly inspections shall be repaired as soon as practicable, but no later than 15 days after the leak was found. Spray gun cleaning solutions containing HAP and VOC below the de minimis levels, specified in 40 CFR 63.741 (f), are exempt from spray gun cleaning requirements.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.744(c), and 9 VAC 5-80-110)
- 17. Used flush cleaning solvents (excluding those in which 40 CFR 63.744 Table 1 or semi-aqueous solvents are used) shall be emptied after each aerospace part, assembly, or component is flush cleaned (with the exception of spray guns) into enclosed containers, collection system, or system with equivalent emission control.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.744(d), and 9 VAC 5-80-110)

### **Shelter Coating Operations**

- 18. Organic HAP emissions from general use coatings shall not exceed 2.6 lb per gallon of coating solids used during each 12 month compliance period. This standard applies to all coatings, thinners, and/or other additives, and cleaning materials used in the coating operation. Compliance with the emission limit shall be demonstrated on a monthly basis, calculated as a rolling 12-month emission rate.
  - (9 VAC 5-60-100 Subpart MMMM, 40 CFR 63.3890(b), 40 CFR 63.3891(b), and 9 VAC 5-80-110)

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### **B.** Monitoring

### **Shelter, Aerospace/Composite, and RTM Coating Operations**

- 1. Each spray booth (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 63, 65, 69 a&b, 96, and 97) shall be equipped with devices to continuously measure the differential pressure drop across the filter. The monitoring devices shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring devices shall be provided with adequate access for inspection and shall be in operation during booth operations. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
  - (9 VAC 5-80-1180, 9 VAC 5-50-260, 9 VAC 5-80-110 and Condition 9 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. The permittee shall perform inspections of the spray booth stacks (Ref. #6, 7, 9, 11, 12, 13, 14, 21, 22, 23, 63, 65, 69 a&b, 96, and 97) to determine the presence of visible emissions. Visible emissions checks shall be conducted at least weekly during periods of normal facility operation for a sufficient time interval to determine if there are any visible emissions. If visible emissions are observed, a visible emissions evaluation (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9 shall be conducted. The VEE shall be conducted for a minimum period of six (6) minutes. If any of the observations exceed the applicable opacity limit, the observation period shall continue until a total of sixty (60) minutes of observation has been completed. A Method 9 evaluation shall not be required if the visible emissions condition is corrected in a timely manner such that no visible emissions are present; the emissions unit is operating at normal operating conditions; and the cause and corrective measures taken are recorded.
  - (9 VAC 5-80-110)
- 3. The permittee shall calculate monthly VOC emissions from all coating operations by material balance. The VOC content of each coating, cleaning, and adhesive material as supplied shall be determined from formulation data provided in the Material Safety Data Sheet (MSDS) or other manufacturer's formulation data. If the VOC content is given as a range of values, the maximum value shall be used to calculate emissions. (9 VAC 5-80-110)

### <u>Aerospace/Composite and RTM Coating Operations (Ref. #63, 65, 69 a&b, 96, and 97)</u>

- 4. The permittee shall monitor the pressure drop continuously across the dry particulate system used to meet the requirements of 40 CFR 63.745(g)(2) while primer or topcoat application operations are occurring, and read and record the pressure drop once per shift following the recordkeeping requirements of 40 CFR 63.752(d).
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.751(c), and 9 VAC 5-80-110)
- 5. Visual leak inspections shall be conducted monthly for enclosed spray gun cleaners. The visual inspection shall consist of inspecting the seals and all other potential sources of leaks associated with the enclosed spray cleaner system. Each inspection shall occur while the system is in operation.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.751(a), and 9 VAC 5-80-110)

### **Shelter Coating Operations**

6. The permittee shall demonstrate continuous compliance by showing that the organic HAP emission rate determined by 40 CFR 63.3951 is less than or equal to the applicable emission limit in 40 CFR 63.3890 for each compliance period. Any organic HAP emission rate during a 12-month compliance period that exceeds the applicable emission limit is considered a deviation.

(9 VAC 5-60-100 Subpart MMMM, 40 CFR 63.3952, and 9 VAC 5-80-110)

### C. Recordkeeping

### **Shelter, Aerospace/Composite, and RTM Coating Operations**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. These records shall include:

- 1. Hourly, monthly, and annual material balance including total throughput and emissions of particulate matter (PM/PM10) and VOC, accounting for material transfer and control. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. Hourly emissions shall be calculated by dividing monthly emissions by hours of operation.
- 2. The quantities and characteristics of waste materials which are used in mass balance calculations shall be documented. Records of shipped waste materials shall be maintained and updated with each shipment.
- 3. Material Safety Data Sheets or other manufacturer's formulation data for each material used.

- 4. Results of VOC content determinations as required by Condition X.B.3.
- 5. Results of weekly visible emission evaluations to include observations, date and time of observation, observer's name, and corrective action taken.
- 6. Daily hours of operation of the process.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 26 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### Aerospace/Composite and RTM Coating Operations

- 7. Recordkeeping for applicable primer and topcoat application operations shall consist of the following: (1) name and VOC content as received and as applied for all primers and topcoats; (2) for uncontrolled compliant coatings, organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC contents, and monthly usage; (3) for low-HAP content primers with organic HAP content less than or equal to 250 g/L (2.1 lb/gal) less water as applied and VOC content less than or equal to 250 g/L (2.1 lb/gal) less water and exempt solvents as applied, manufacturer's certification for HAP and VOC content if applied as received, annual purchase records, and data/calculations and test results used to determine HAP and VOC content; (4) for averaged coatings, monthly volume-weighted average values of HAP and VOC content; and data/calculations and test results used to calculate HAP and VOC content; and (5) for inorganic HAP particulate, pressure drop across filter or water flow rate through waterwash system once per shift, and acceptable operating limits.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.752(c)-(d), and 9 VAC 5-80-110)
- 8. Recordkeeping for aerospace hand-wipe cleaning operations shall consist of the following: (1) if complying with composition requirements, the name data/calculations, and annual volumes; (2) if complying with vapor pressure limit, the name, vapor pressure, data/calculations/test results, and monthly volumes; and, (3) for noncompliant cleaning solvents used in exempt operations, the name, monthly volumes by operation, and master list of processes.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.752(b), and 9 VAC 5-80-110)
- 9. Recordkeeping for spray gun cleaning shall consist of recording all leaks, including source identification and dates leaks are found and repaired.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.752(b)(5), and 9 VAC 5-80-110)

10. Recordkeeping for flush cleaning for semi-aqueous solvents shall consist of the solvent name, data/calculations, and annual volumes.

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.752(b)(2), and 9 VAC 5-80-110)

### **Shelter Coating Operations**

11. The permittee shall maintain records as described in 40 CFR 63.3930 pertaining to the emission rate without add-on controls option. These records include, but are not limited to copies of reports and notifications, manufacturer's data, calculations, material identification and usage data, and any deviations. These records shall be maintained onsite for at least two years, and maintained on-file for at least 5 years following the date of each occurrence, record, or report, as detailed in 40 CFR 63.3931.

(9 VAC 5-60-100 Subpart MMMM, 40 CFR 63.3930, 40 CFR 63.3931, and 9 VAC 5-80-110)

### D. Testing

### Shelter, Aerospace/Composite, and RTM Coating Operations

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
  - (9 VAC 5-50-30, 9 VAC 5-80-110, and Condition 10 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))
- 2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.

(9 VAC 5-80-110)

### **Aerospace/Composite and RTM Coating Operations**

- 3. Performance test periods for uncontrolled primers and topcoats (except as specified in 40 CFR 63.741 e-j) shall consist of the following: for coatings not averaged: each 24 hour period; for averaged coatings: each 30-day period.
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.749(d), and 9 VAC 5-80-110)
- 4. The procedures specified in 40 CFR 63.750(c), (d), (e), and (f) shall be used to determine organic HAP and VOC levels for primers and topcoats (except as specified in 40 CFR 63.741 e-j).
  - (9 VAC 5-60-100 Subpart GG, 40 CFR 63.750, and 9 VAC 5-80-110)

5. For applicable primer and topcoats containing inorganic HAP, dry particulate filter certification shall be required using Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of 40 CFR 63.745 for existing sources, or Tables 3 and 4 of 40 CFR 63.745 for new sources.

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.750, and 9 VAC 5-80-110)

6. The composition of handwipe cleaning solutions shall be determined using manufacturer's data; vapor pressure shall be determined using readily available sources (e.g. MSDS for single component; composite vapor pressure determined by manufacturer's supplied data or ASTM E 260-91, and by equation provided for multiple component solvents in 40 CFR 63.750(b)).

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.750(b), and 9 VAC 5-80-110)

### E. Reporting

### **Aerospace/Composite/RTM Coating Operations**

1. Reporting for applicable primer and topcoat application operations shall consist of the following: (1) semiannual reports stating all instances where organic HAP and VOC limits were exceeded; (2) semiannual reports stating control device exceedances (out-of-compliance); (3) semiannual reports stating periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits; (4) semiannual report certifying compliance; and (5) annual reports stating the number of times the filter pressure drop or water flow rate limits were exceeded. The semiannual reports shall cover the reporting periods and be submitted according to the schedule described in General Condition XIII.C. The annual report shall cover the reporting period and be submitted according to the schedule described in General Condition XIII.D.

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.9(j), 40 CFR 63.10(a)(5), 40 CFR 63.753(c), and 9 VAC 5-80-110)

2. Reporting requirements for cleaning operations shall consist of the following: (1) for all applicable cleaning operations, semiannual report certifying compliance; (2) for handwipe cleaning, semiannual report indicating noncompliant cleaning solvents used and new cleaning solvents and their composite vapor pressure or notification of compliance with composition requirements; and (3) for spray gun cleaning, semiannual report indicating noncompliant spray gun cleaning method used, and leaks from enclosed spray gun cleaners not repaired within 15 days. The semiannual reports shall cover the reporting periods and be submitted according to the schedule described in General Condition XIII.C.

(9 VAC 5-60-100 Subpart GG, 40 CFR 63.9(j), 40 CFR 63.10(a)(5), 40 CFR 63.753(b), and 9 VAC 5-80-110)

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### **Shelter Coating Operations**

3. The permittee shall submit semiannual compliance reports as specified in 40 CFR 63.3920(a). The semiannual reports shall cover the reporting periods and be submitted according to the schedule described in General Condition XIII.C. The reports shall include the information identified in 40 CFR 63.3920(a) pertaining to the emission rate without add-on controls option.

(9 VAC 5-60-100 Subpart MMMM, 40 CFR 63.3920, 40 CFR 63.9(j), 40 CFR 63.10(a)(5), and 9 VAC 5-80-110)

### **XI.** Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
8, 10, 15, 16, 17, 24, 25, 26, 28, 29, 30, 34, 35, 36, 37, 38, 39, 42, 43, 44, 45, 47, 71, 72, 73, 74, 75, 106, 115	Gas-fired Drying ovens and heaters	9 VAC 5-80-720 C 2.a.		< 10 MMBtu/hr
94, 99-105	Electric ovens and heaters	9 VAC 5-80-720 A.6 & 39		
59, 60, 62, 64, 86	Steam ovens and dryers	9 VAC 5-80-720 A.39		
82, 83, 85	Vacuum Pumps	9 VAC 5-80-720 B	VOC	
48	Ignition Loss Burnout oven	9 VAC 5-80-720 A.28		
70	Lab spray booth	9 VAC 5-80-720 A.28		
77, 88	Diesel Storage Tanks	9 VAC 5-80-720 A.41		
107	Various grinding, buffing, trimming	9 VAC 5-80-720 B	PM	
Shop Vacs	Shop Vacuum Cleaners	9 VAC 5-80-720 A.50		

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These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

### XII. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60, Subpart Dc	Standards of Performance for	This regulation does not apply
	Small Industrial-Commercial-	since both boilers were
	Institutional Steam Generating	installed prior to the effective
	Units	date of June 9, 1989.
40 CFR 60, Subpart Kb	Standards of Performance for	This regulation is applicable to
	Volatile Organic Liquid	larger storage tanks (75 m <sup>3</sup> ~
	Storage Vessels (Including	19,813 gal). The tanks at this
	Petroleum Liquid Storage	facility are reported to be
	Vessels) for Which	much smaller.
	Construction, Reconstruction,	
	or Modification Commenced	
	after July 23, 1984	
40 CFR 60, Subpart VVV	Standards of Performance for	This regulation does not apply
	Polymeric Coating of	because the company's
	Supporting Substrates	processes related to this were
	Facilities	installed and operated prior to
		April 30, 1987.
40 CFR 60, Subpart FFFF	Emission Guidelines and	This regulation does not apply
	Compliance Times for Other	to industrial waste incinerator
	Solid Waste Incineration Units	units. Therefore, it does not
	That Commenced	apply to the heat cleaning
	Construction On or Before	oven.
	December 9, 2004	
9 VAC 5 Chapter 40, Article	Emission Standards for	This regulation does not apply
24	Solvent Metal Cleaning	because the facility is not
	Operations Using Non-	located in a VOC control area.
	halogenated Solvents	

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Citation	Title of Citation	Description of Applicability
9 VAC 5 Chapter 40, Article	Emission Standards for	This regulation does not apply
25	Volatile Organic Compound	because the facility is not
25	Storage and Transfer	located in a VOC control area.
	Operations Operations	Tooling in a voc control area.
	operations.	
9 VAC 5 Chapter 40, Article	Emission Standards for	This regulation does not apply
34	Miscellaneous Metal Parts and	because the facility is not
	Products Coating Application	located in a VOC control area.
	Systems	
9 VAC 5 Chapter 40, Article	Emission Standards for	This regulation exempts rack,
45	Commercial/Industrial Solid	parts, and drum reclamation
	Waste Incinerators	units. Therefore, the heat
		cleaning oven is not subject.
9 VAC 5 Chapter 60, Article	Emission Standards for Toxic	This regulation does not apply
5	Pollutants for New and	to sources in categories
	Modified Sources	subject to MACT
40 CED 62 C 1 4 T	N. I.E G. 1 1	requirements.
40 CFR 63, Subpart T	National Emission Standards	This regulation does not apply
	for Halogenated Solvent	because the company uses an alternative solvent in a
	Cleaning	
40 CFR 63, Subpart JJJJ	Donor and Other Web Coating	degreasing unit. 40 CFR 63.3300 states that the
40 CFK 03, Subpart JJJJ	Paper and Other Web Coating (MACT)	regulation applies to flexible
	(MAC1)	packaging and pressure
		sensitive tape operations. The
		company uses fabric in
		producing rigid composites,
		and is therefore not subject.
40 CFR 63, Subpart MMMM	Surface Coating of	40 CFR 63.3881(c)(10)&(11)
, <u>r</u>	Miscellaneous Metal Parts and	exclude coating of metal parts
	Products (MACT)	used in aerospace vehicles or
		components. Therefore this
		regulation does not apply to
		composite coating operations.
		It will apply to shelter coating
		operations.
		40 CFR 63.3910(c) and 40
		CFR 63.3951 contains initial
		compliance requirements
		which have been fulfilled.
		They were removed from the
		permit.

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Citation	Title of Citation	Description of Applicability
40 CFR 63, Subpart OOOO	Printing, Coating, and Dyeing of Fabrics and Other Textiles (MACT)	The company does not use HAP-containing materials in their impregnation process, and is excluded by 40 CFR 63.4281(c).
40 CFR 63, Subpart PPPP	Surface Coating of Plastic Parts and Products	40 CFR 4481(c)(11) excludes coating of plastic aerospace components at facilities subject to 40 CFR 63, Subpart GG – Aerospace Manufacture and Rework.
40 CFR 63, Subpart WWWW	Reinforced Plastic Composites Production (MACT)	The company does not use more than 1.2 T/yr of styrene-containing resins/gels, and is exempted by 40 CFR 63.5785(d).

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

### XIII. General Conditions

### A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

### **B.** Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

- 1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
- 2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
- 3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- 4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- 5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

### C. Recordkeeping and Reporting

- 1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
  - a. The date, place as defined in the permit, and time of sampling or measurements.
  - b. The date(s) analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses.

- f. The operating conditions existing at the time of sampling or measurement. (9 VAC 5-80-110 F)
- 2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

- 3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
  - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
  - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
    - (1) Exceedance of emissions limitations or operational restrictions;
    - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
    - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
  - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

### **D.** Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee

shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- 1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
- 2. The identification of each term or condition of the permit that is the basis of the certification.
- 3. The compliance status.
- 4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
- 5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
- 6. Such other facts as the permit may require to determine the compliance status of the source.
- 7. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3\_APD\_Permits@epa.gov

(9 VAC 5-80-110 K.5)

### **E.** Permit Deviation Reporting

The permittee shall notify the Director, Southwest Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XIII.C.3 of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

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### F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Southwest Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Southwest Regional Office.

(9 VAC 5-20-180 C and Condition 32 of 04/30/08 NSR permit (as amended 09/24/12 and

### **G.** Severability

03/12/13))

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

### H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

### I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

### J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios. (9 VAC 5-80-190 and 9 VAC 5-80-260)

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### K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

### L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.

(9 VAC 5-80-110 G.6)

2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 K.1)

### M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. (9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

### N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- 1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- 2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

- 3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- 4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- 5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

### O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

### P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

### Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- 1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- 2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

- 3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- 4. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2 and Condition 29 of 04/30/08 NSR permit (as amended 09/24/12 and 03/12/13))

### **R.** Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

- 1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- 2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

### S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

### T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

- 2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

  (9 VAC 5-80-160)
- 3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

  (9 VAC 5-80-160)

### U. Malfunction as an Affirmative Defense

- 1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
- 2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
  - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
  - b. The permitted facility was at the time being properly operated.
  - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
  - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- 3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.

4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

### V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

### W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. (9 VAC 5-80-80 E)

### X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

### Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).

(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

### Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

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### AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (9 VAC 5-80-110 I)

### **BB.** Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

- 1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
- 2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
- 3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)